查询HG4185A/006D-1H9-1供应商

Automotive Plug-In / PCB Power Relay HG4185A/B/C

FEATURES

- 30A to 80A continuous current capacity
- Automotive - oriented design
- Fully standardized QC size and layout
- Plastic cover for rough environment protection

TYPICAL AUTOMOTIVE APPLICATIONS

- Head lights
- Fog lamp
- Signal horn
- Blower motor control
- Starter relay
- Radiator cooling fan
- Power window
- ABS system
- Start bypass relay

CONTACT DATA

HG4185A

Form		1 Form A (1H, 1HS)	1 Form C (1Z)
Max. Switching Current	Make	120A	NO120A/NC45A
	Break	40A	NO40A/NC30A
Material		AgNi10	
Initial Contact Resistance		100 mΩ max. at 0.1A, 6VDC	
Max. Switching Voltage		See Curve 1, current dependent	
Max. Continuous Current		30A	NO30A/NC30A
Min. Load		0.1A, 12VDC	
Service Life	Mechanical	10^7 ops.	
	Electrical	2 x 10^5 ops, see Note 4	

HG4185B

Form		1 Form A (1H, 1HS)	1 Form C (1Z)
Max. Switching Current	Make	120A	NO120A/NC45A
	Break	60A	NO60A/NC40A
Material		AgCdO	
Initial Contact Resistance		100 mΩ max. at 0.1A, 6VDC	
Max. Switching Voltage		See Curve 1, current dependent	
Max. Continuous Current		60A	NO60A/NC40A
Min. Load		0.5A, 12VDC	
Service Life	Mechanical	10^7 ops.	
	Electrical	2 x 10^5 ops, see Note 4	

HG4185C

Form		1 Form A (1H)	1 Form C (1Z)
Max. Switching Current	Make	240A	NO240A/NC180A
	Break	80A	NO80A/NC60A
Material		AgSnOInO	
Initial Contact Resistance		100 mΩ max. at 0.1A, 6VDC	
Max. Switching Voltage		See Curve 2, current dependent	
Max. Continuous Current		80A	NO80A/NC60A
Min. Load		0.5A, 12VDC	
Service Life	Mechanical	10^7 ops.	
	Electrical	10^5 ops, see Note 4	

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ±10%	Must Operate Voltage max. (VDC)	Allowable Voltage (VDC)	Must Release Voltage min. (VDC)
006	6	22	3.6	10.1	0.6
012	12	90	7.2	20.5	1.2
024	24	330	14.3	39.1	2.4

CHARACTERISTICS

Operate Time	7 ms. typical
Release Time	2 ms. typical
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min.
Shock Resistance	20 g, 11ms.
Vibration Resistance	10-40Hz: DA 1.27mm; 40-70Hz: 5 g; 70-100Hz: DA 0.5mm; 100-500Hz: 10 g.
Drop Resistance	1 M height drop on concrete
Power Consumption	1.6W, unsuppressed; 1.81W, with resistor
Ambient Temperature	-40ºC to 125ºC operating; -40ºC to 155ºC storage
Weight	35 g, approx.

ORDERING DESIGNATION

Example:	HG4185	C /	012	R -	1H	9	-1

Model

Rating Code
A: 20A;
B: 40A;
C: 80A

Coil Voltage Code

Paralleled Component
Nil: Nil;
R: Resistor;
D: Diode (+) 85~86 (-);
D: Diode Reversed (-) 85~86 (+)

Contact Form
1H: 1 Form A;
1HS*: 1 Form A with Double 87 Terminals;
1Z: 1 Form C

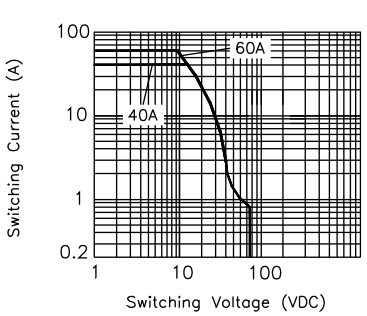
Mounting Version
Nil: Plug-In;
4: PCB;
9: Molded Bracket;
9M1: Metal Bracket;
9M2: Bent Metal Bracket;
9S1: Skirted Cover + Metal Bracket;
9S2: Skirted Cover + Bent Metal Bracket

Version
1: Sealed (only available for Plug-In, PCB and Molded Bracket mounting)

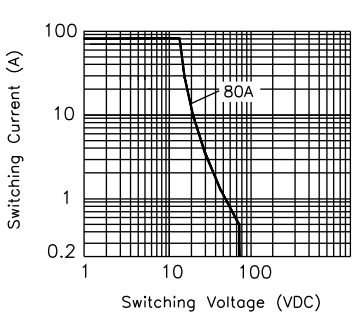
*: Available for HG4185A, HG4185B only.

REFERENCE CURVES

1. Power Load Limit of HG 4185A, B

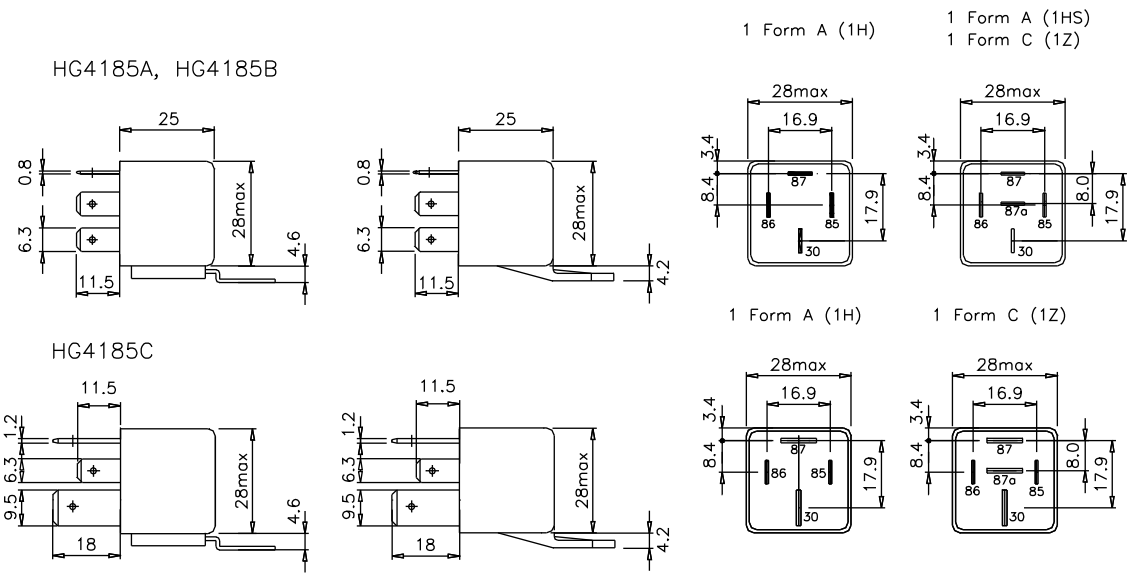


2. Power Load Limit of HG 4185C

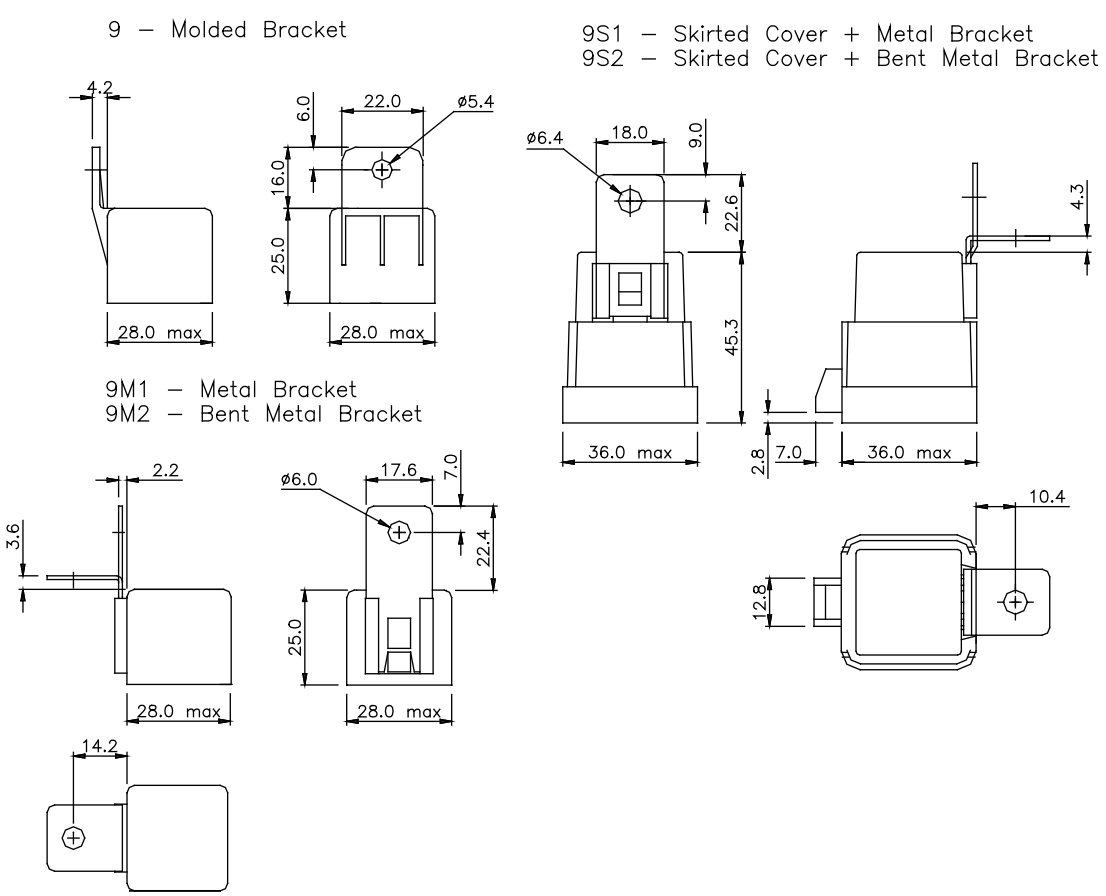


OVERALL DIMENSIONS, OPTIONAL COVERS, TERMINAL LAYOUTS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)

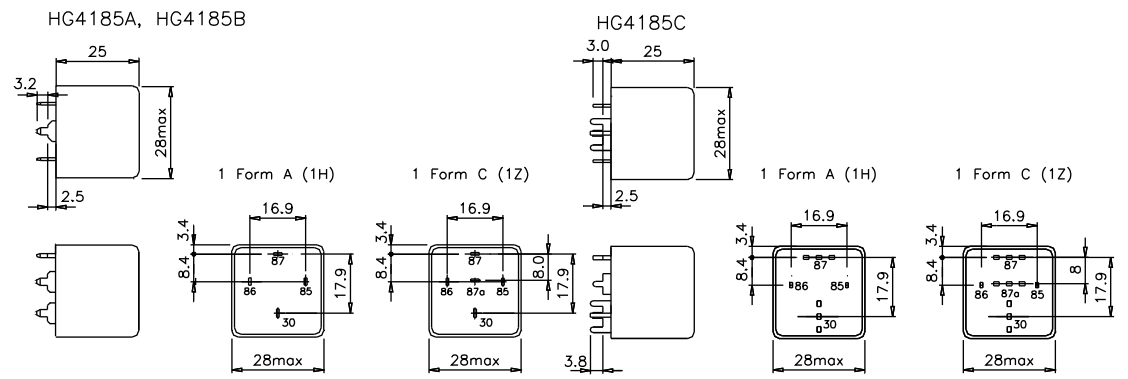
Overall Dimensions, Plug-In Type



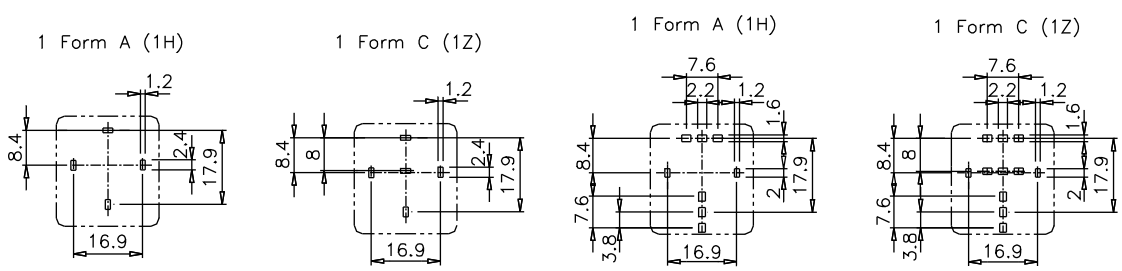
Optional Covers



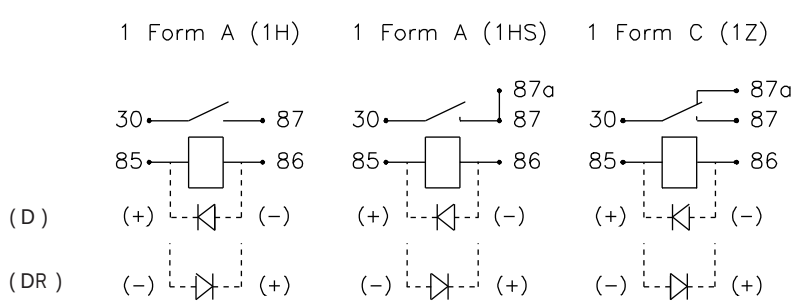
Overall Dimensions, PCB Type



PCB Type Mounting Holes (Bottom View)



Wiring Diagrams



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23ºC.
2. Maximum make current refers to inrush current of lamp load.
3. At ambient temperature of 85ºC, maximum allowable voltage should be reduced to 72%.
4. Electrical life obtained at resistive or inductive load at 20A, 15 VDC for HG4185A; 40A, 15VDC for HG4185B; 80A, 15VDC for HG4185C with suitable arc-suppression circuit attached with operating frequency of 1 ops/sec.
5. Custom-made services available with operational quantity. Please let us know your special requirements.
6. Specifications subject to change without prior notice.